	Application No.	Applicant(s)	
Notice of Allowability	10/605,482	WU, GIN-DER	
	Examiner	Art Unit	· <u> </u>
	Abdelali Serrou	2626	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT IS of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in (5) or other appropriate commission is selection is selection is selection.	n this application. If not included unication will be mailed in due co	urse. THIS
1. X This communication is responsive to communication filed	on 08/22/07.		
2. ☑ The allowed claim(s) is/are <u>1,4-14 and 17-20</u> .			
 Acknowledgment is made of a claim for foreign priority to a) ☐ All b) ☐ Some* c) ☐ None of the: ☐ Certified copies of the priority documents have 		or (f).	
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2. ☐ Certified copies of the priority documents have3. ☐ Copies of the certified copies of the priority d	• •		n from the
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International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON		e a reply complying with the requi	rements
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
4. A SUBSTITUTE OATH OR DECLARATION must be submitted in the submitted of	_		TICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mu	ust be submitted.		
(a) including changes required by the Notice of Draftspe	rson's Patent Drawing Review	w (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date	<u>_</u> .		
(b) including changes required by the attached Examine Paper No./Mail Date	r's Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			ack) of
6. DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT			te the
Attachment(s)	E - Nicking of to	formal Datant Annlianting	
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 	<u> </u>	iformal Patent Application ummary (PTO-413),	
2. [_] Notice of Draitperson's Patent Drawing Review (P10-940)	Paper No.	/Mail Date /	
3. Information Disclosure Statements (PTO/SB/08),	7. Examiner's	Amendment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🗌 Examiner's	Statement of Reasons for Allowa	ance
	9. 🗌 Other	_·	

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DETAILED ACTION

Response to Amendment

1. In response to the office action mailed on 06/20/2007, applicant filed an amendment on 08/22/2007, amending Fig. 2, and claims 1, and 14, and canceling claims 2-3, and 15-16. The pending claims are 1, 4-14, and 17-20.

Response to Arguments

2. Applicant's arguments, see communication, filed on 08/22/2007, with respect to claims 1, 4-14, and 17-20 have been fully considered and are persuasive. The rejection of claims 1, 4-14, and 17-20 has been withdrawn.

Based on applicant's arguments, and Terminal Disclaimer, filed on 08/22/2007, the current application is in condition for allowance.

Allowable Subject Matter

3. Claims 1, 4-14, and 17-20 are allowed.

The following is an examiner's statement of reasons for allowance:

Independent claims 1 and 14 teach a multiple step-sized levels adaptive method for time scaling to synthesize an $S_3[n]$ signal from an $S_1[n]$ signal and an $S_2[n]$ signal, wherein $S_1[n]$ signal has N elements while the $S_2[n]$ signal has $S_2[n]$ elements, and the $S_3[n]$ signal

=the $S_1[n]$ signal, where 0<=n<the maximum index;

= $(N_1-n)/(N_1$ -the maximum index)* S_1 [n]+(n-the maximum index)/(N_1 -the maximum index)* S_4 [n-the maximum index], where the maximum index <=n< N_1 ;

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- = S_4 [n-the maximum index], where $N_1 \le N_2$ -the maximum index;
- = the $S_1[n]$ signal, where 0<=n<the maximum index + a predetermined number;
- = $(N_1-n)/(N_1-(the predetermined number + the maximum index))*S_1[n]+(n-(the predetermined number + the maximum index))/(N_1-(the predetermined number + the maximum index))*S_4[n-(the predetermined number + the maximum index)], where (the predetermined number + the maximum index)<=<math>n< N_1$;

=S₄[n-(the predetermined number + the maximum index)], where $N_1 \le N_2 + the$ predetermined number + the maximum index).

The closest art is by:

Miyasaka (U.S 5,845,247), who teaches an apparatus that reproduces a plurality of band signals which have been subjected to a band division and includes a time-scale modifier which receives the plurality of band signals, time-axis compresses the respective band signals, and a synthesis filter bank for synthesizing the plurality of time-axis compressed band signals.

Koezuka (U.S 6,801,898) who teaches performing time-scale modification on digital signals.

Taniguchi et al. (U.S 6,484,137) who teach an audio reproducing a system which realizes time-scale modified audio with high/low speed and of high quality, with a simple construction based on time-scale compression/expansion at a prescribed speed rate which is completed by processing data in frames.

The prior art of record do not teach a non-linear method for time-scaling to synthesize a signal as recited in claims 3 and 16.

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Dependent claims 4-13, and 17-20 are allowed for the same reason, as being dependent on allowed claims 1 and 14.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Abdelali Serrou whose telephone number is 571-272-7638. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David R. Hudspeth can be reached on 571-272-7843. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A. Serrou

10/31/07

DAVID HUDSPETH
SUPERVISORY PATENT EXAMINER
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